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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,847	08/06/2003	Masanori Onuma	Q76879	6506
65565	7590	03/07/2007	EXAMINER	
SUGHRUE-265550 2100 PENNSYLVANIA AVE. NW WASHINGTON, DC 20037-3213			LE, THANH TAM T	
			ART UNIT	PAPER NUMBER
			2839	
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	03/07/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/634,847	ONUMA ET AL.	
	Examiner Thanh-Tam T. Le	Art Unit 2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 23 January 2007.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-4 and 6 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-4, 6 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____
4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____
5) Notice of Informal Patent Application
6) Other: _____

DETAILED ACTION

1. The RCE filed 1/23/07 is acknowledged.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3-4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gipe (4,031,614) in view of Swengel, Sr. et al. (3,656,092) and an Applicant's submitted Prior Art (APA).

Gipe, figures 1 and 2 show a method of connecting terminal fitting (25) and elastic wire (29), comprising:

- a terminal fitting (11);
- an electric wire (29);
- a conductive connecting member (13) formed with an insertion hole;
- inserting the electric wire into the insertion hole of the connecting member;
- compressing the connecting member radially inwardly so as to caulk an inserted portion of the electric wire uniformly over a whole periphery thereof; and thereafter
- welding the connecting member and the terminal fitting (column 3, lines 19-29 and column 4, lines 14-19).

Gipe discloses the claimed invention as described above except for the connecting member including an outer peripheral portion having a continuous cylindrical shape and welding the connecting member and the terminal fitting by applying ultrasonic wave.

Swengel, Sr. et al., figure 4 shows a terminal device having a sleeve (24) having a continuous cylindrical shape. It would have been obvious to one with ordinary skill in the art at the time the invention was made to provide Gipe to have the sleeve, as taught by Swengel, Sr. et al. for easier to hold and receive the lead core.

APA, figures 7 and 8, discloses wire (51) and a flat-type aluminum wire (55) are heated and melted by an ultrasonic wave-generating source (57). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Gipe to have the ultrasonic wave as taught by APA for better welding.

Regarding claims 3 and 6, Gipe, figure 2 shows the connecting member including a first hole portion (21) and a second hole portion (19) that is larger than the first hole in diameter. The electric wire having a core wire (31) covered with an insulating sheath (33). The core wire is inserted in the first hole portion and the insulating sheath is inserted in the second hole portion, and the first hole portion and the second hole portion are disposed coaxially with each other. The connecting member is compressed so that the insulating sheath is held in intimate contact with the second hole portion.

Regarding claim 4, Gipe, figure 2 shows the terminal fitting is provided with a clamping portion (17) and press-clamping the conductive connecting member by the clamping portion.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gipe in view of Swengel, Sr. et al. and APA as applied to claim 1 above, and further in view of Hsieh (4,998,344).

Gipe discloses the claimed invention as described above except for the connecting member is compressed and shaped by rotary swaging.

Hsieh, figures 1-3 show rotary swaging a workpiece (1) that is generally a cylindrical tube to form a semi-product. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Gipe to have the connecting member is compressed and shaped by rotary swaging, as taught by Hsieh, in order to have more security between the connecting member and the wire.

Response to Arguments

5. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is 571-272-2094. The examiner can normally be reached on 7:30-5:00.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Thanh-Tam T. Le
Primary Examiner
Art Unit 2839

TL.
02/26/07.